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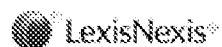
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242960 (06) 5693343 December 2, 1997

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5693343

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Link to Claims Section

December 2, 1997

Microparticle carriers of maximal uptake capacity by both M cells and non-M cells

**REISSUE:** November 30, 1999 - Reissue Application filed Ex. Gp.: 1614; Re. S.N. 09/451,321 (O.G. February 8, 2000)

**INVENTOR:** Reid, Robert H. - Kensington, Maryland, United States (US); Van Hamont, John E. - Fort Meade, Maryland, United States (US); Brown, William R. - Denver, Colorado, United States (US); Boedeker, Edgar C. - Chevy Chase, Maryland, United States (US); Tries, Curt - Baldwin, Missouri, United States (US)

**APPL NO:** 242960 (08)

**FILED DATE:** May 16, 1994

**GRANTED DATE:** December 2, 1997

**ASSIGNEE - PRE-ISSUE:** September 1, 1994 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS); UNITED STATES OF AMERICA, THE, AS REPRESENTED BY THE SECRETARY OF THE ARMY WASHINGTON, D.C. 20310, Reel and Frame Number: 007121/0009

**ASSIGNEE - AT-ISSUE:** The United States of America as represented by the Secretary of the Army, Washington, District of Columbia, United States (US); United States government (06)

**LEGAL REP:** Bellamy, Werten F. W.

Lexis lists litigation at the top of its patents: No litigation listed.

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Patent Assignee :

Inventor(s) :

Patent Number(s) :

Priority Number(s) :

Application Number(s) :

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US Classification Code:  [Lookup](#)

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1 / 1 PLUSPAT - @Questel

**Patent Number :**

US5693343 A 19971202 [US5693343]

**Title :**

(A) Microparticle carriers of maximal uptake capacity by both M cells  
and non-M cells

**Patent Assignee :**

(A) US ARMY (US)

**Patent Assignee :**

The United States of America as represented by the Secretary of the  
Army, Washington DC [US]

**Inventor(s) :**

(A) REID ROBERT H (US); VAN HAMONT JOHN E (US); BROWN WILLIAM R (US);  
BOEDEKER EGAR C (US); THIES CURT (US)

**Application Nbr :**

US24296094 19940516 [1994US-0242960]

1 / 1 LGST - @EPO

**Patent Number :**

US5693343 A 19971202 [US5693343] (A) Patent

**Application Number :**

US24296094 19940516 [1994US-0242960]

**Publication actions :**

19940516 US-API [POS; EXM]

FILING DETAILS

US24296094 19940516 [1994US-0242960]

19971202 US-A [POS; EXM]

Patent

US5693343 A 19971202 [US5693343]

**Action Taken :**

19940901 US/AS02-A [NMC]

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: UNITED STATES OF AMERICA, THE, AS REPRESENTED BY T; EFFECTIVE  
DATE: 19940728

19940901 US/AS02-A [NMC]

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: REID, ROBERT H.; EFFECTIVE DATE: 19940728

19940901 US/AS02-A [NMC]

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: VANHAMONT, JOHN; EFFECTIVE DATE: 19940808

19940901 US/AS02-A [NMC]

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: BROWN, WILLIAM R.; EFFECTIVE DATE: 19940728

19940901 US/AS02-A [NMC]

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: BOEDEKER, EDGAR C.; EFFECTIVE DATE: 19940728

19940901 US/AS02-A [NMC]  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: THI; EFFECTIVE DATE: 19940824

20000208 US/RF-A [OPP]  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 19991130

**Lasted Event Group :**

OPP  
Alive

**Update Code :**

2003-22

1 / 1 CRXX - @CLAIMS/RRX

**Patent Number :**

5,693,343 A 19971202 [US5693343]

**Patent Assignee :**

U S of America Army Secretary of

**Actions :**

19991130 REISSUE REQUESTED  
Issue Date of O.G.: 20000208  
Reissue Request Number: 09/451321  
Examination Group responsible for Reissue process: 1614

Query/Command : st